

WHAT IS CLAIMED:

- 1 1. A digital camera system, comprising:
2 a digital camera having an image-receiving lens and an image sensor, the image
3 sensor designed to detect an image from the lens; and
4 a sealed case surrounding the digital camera, the case constructed and arranged for
5 providing a water resistant enclosure for the camera and adapted for transmission of the
6 image from the image sensor to a display located external to the case without opening the
7 case.
- 1 2. The camera system as recited in claim 1 wherein the case is formed from two sections
2 of material permanently bonded together.
- 1 3. The camera system as recited in claim 1 wherein the case is waterproof at depths less
2 than about six meters.
- 1 4. The camera system as recited in claim 1 wherein the case is pressure resistant at
2 depths up to about 60 meters.
- 1 5. The camera system as recited in claim 4 wherein the case is made from a
2 polycarbonate resin material, further wherein areas of the case are reinforced.
- 1 6. The camera system as recited in claim 1 wherein the case is pressure resistant at
2 depths up to about 90 meters.
- 1 7. The camera system as recited in claim 6 wherein the case made from an aluminum
2 alloy.
- 1 8. The camera system as recited in claim 1 wherein non-optical internal airspace within
2 the case is filled with a solid or liquid material.

1 17. The camera system as recited in claim 16 wherein the battery system is rechargeable
2 with an inductive charging mechanism.

1 18. The camera system as recited in claim 17 wherein the battery system is rechargeable
2 using solar energy.

1 19. The camera system as recited in claim 10 wherein the battery system is
2 interchangeable.

1 20. The camera system as recited in claim 10 wherein the battery system and storage
2 system are combined into a single unit located in a sealed case external to the camera case.

1 21. The camera system as recited in claim 17 further comprising a light source in
2 communication with the camera system.

1 22. The camera system as recited in claim 21 wherein the light source is an inductively
2 rechargeable external strobe light in communication with the camera system via a wired link,
3 wireless link or a set of non-corrosive contacts.

1 23. A camera system designed for underwater use comprising:
2 a digital camera;
3 a sealed case surrounding the digital camera; and
4 a transmission link for outputting images from the digital camera to a remote
5 controller.

1 24. The camera system as recited in claim 23 wherein the digital camera is a video
2 camera.

1 25. The camera system as recited in claim 23 wherein the remote controller is a personal
2 computer.

